

Isys® 4.3" Designer Touch Screen

- > Modern, contoured appearance
- > Thin profile and small footprint
- > Affordable and easy to install
- > 4.3" widescreen color touch screen
- > 16-bit color graphics powered by Core 3™
- > 800 x 480 WVGA display resolution
- > Native H.264 streaming video for viewing Web cameras and other sources
- > Crestron IP intercom
- > WAV file customizable audio feedback
- > Built-in microphone and speaker
- > Built-in proximity sensor
- > 10 optional "hard key" pushbuttons
- > White LED button backlighting and feedback
- > Custom engravable button text
- > Room occupancy sensor option⁽¹⁾
- > Single-wire Ethernet connectivity
- > PoE network powered
- > Versatile wall, surface, and tabletop mounting options
- > Available with black or white smooth finish

CORE3UI™

With its clean, contoured appearance, the Isys® TPMC-4SMD Designer Touch Screen from Crestron® makes an elegant statement in any environment. Perfectly at home in the most contemporary residence or modern office building, its high-tech good looks underline its power for simplifying everyday tasks and functions throughout any facility, all in a very affordable device that's versatile and easy to install.

An incredibly thin profile and small footprint allow the TPMC-4SMD to be installed in places other touch screens just can't go, providing the choice of mounting to a standard electrical box or to virtually any flat surface — even glass, granite, or marble. A table top enclosure is also available, affording a very stylish, space-saving solution for placement on a desktop or bedside table. Complete connectivity is provided through a single high-speed Ethernet connection, containing all control, video, intercom, and power signals within a single wire.

The TPMC-4SMD packs our latest digital touch screen technology powered by the groundbreaking **Core 3 UI™**, delivering amazing new control and graphics capabilities, plus H.264 streaming video and 2-way IP intercom, cohesively merged into one seamless user interface. Other features include white LED backlit buttons, built-in proximity sensor, PoE network power, and occupancy sensor inputs.



Advanced Touch Screen Control

A Crestron touch screen offers an ideal user-interface for controlling all the technology in your home, boardroom, classroom, courtroom, or command center. Touch screens do away with piles of remote controls, cluttered wall switches, and cryptic computer screens, simplifying and enhancing the way you use technology. Crestron touch screens are fully-customizable for controlling home theater, multimedia presentation, audio, video, lighting, HVAC, and other systems — with easy-to-use controls and icons, true feedback and real-time status display, live streaming video, and advanced navigation of digital media servers, tuners, and other devices.

Powered by Core 3™

Crestron touch screens have always offered the ultimate user experience. With Core 3 UI, they also deliver the ultimate value, enabling the creation of dynamically rich user interfaces with incredible efficiency and unparalleled functionality. Using Core 3 UI, programmers can swiftly integrate fluid gesture-driven controls, animated feedback, metadata, and video for a deeply engaging and ultra-intuitive touch screen experience.

Some Core 3 UI enhancements:

- Cool-looking graphical buttons, sliders, knobs, and gauges are intuitive and fun to use.
- Kinetic effects enhance the feeling of realism with lists and toolbars that scroll with momentum at the flick of a fingertip.
- Drag-and-drop objects snap into place offering an easy way to assign assets to rooms.
- Desktop widgets personalize the touch screen with animated clocks, calendars, weather, news, and other information.
- Customizable themes allow a completely different look and feel for every user, event, or season.
- Fully-developed SmartObjects™ enable sophisticated control over complex devices with minimal programming.
- Smart resizing scales objects perfectly and instantly for faster GUI development — even across different sized touch screens.

TPMC-4SMD Isys® 4.3" Designer Touch Screen



TPMC-4SMD-B-S with "No-Button" Covers



TPMC-4SMD-B-S
with WMKU-4SM
Universal
Wall Mount Kit



TPMC-4SMD-W-S with
"No-Button" Covers and
TTK-4SM TableTop Kit



TPMC-4SMD-W-S with
"No-Button" Covers and
MSMK-4SM Multi-Surface Mount Kit
(Shown w/optional angle bracket)

White Backlit Buttons

The TPMC-4SMD comes standard with 10 programmable "hard key" push-buttons for quick access to commonly used functions. Each button features a translucent button cap with white LED backlighting. The backlighting is fully dimmable, either globally or separately for the left side and right side. Alternately, each button LED can be programmed to provide discrete feedback, affording clear indication of the status of each individual button.

The TPMC-4SMD comes standard with its buttons pre-labeled for typical room control functions. Customized labeling can be attained using Crestron Engraver software. Or, for a clean appearance, either column of buttons may be removed and covered using the no-button covers provided.

Proximity Sensor

The TPMC-4SMD senses as you approach it, waking its display automatically without having to touch the screen so it's always ready for use.

Streaming Video

High-performance streaming video capability makes it possible to view security cameras and other video sources over the network right on the touch screen. Native support for H.264 and MJPEG formats allows the TPMC-4SMD to display live video images from Web cameras and servers such as the Crestron [CEN-NVS200 Network Video Streamer](#)^[1].

IP Intercom

Built-in IP intercom capability facilitates direct touch screen-to-touch screen intercom and monitoring right over the LAN without requiring any additional AV wiring. The TPMC-4SMD features an integrated microphone and speaker for clear speech communication.

Audio Feedback

Customized WAV files can be loaded on the TPMC-4SMD to add another dimension to its touch screen graphics using personalized sounds, button feedback, and voice prompts.

Single-Wire Connectivity

A simple Ethernet LAN connection is all that is required to wire the TPMC-4SMD, containing all control, video, intercom, and power signals within a single wire.

Power over Ethernet

The TPMC-4SMD gets its power right through the LAN wiring using 802.3af PoE technology. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. A PoE Injector ([PWE-4803RU](#)^[1]) simply connects inline with the LAN cable, allowing for installation at any convenient location. Crestron PoE switches ([CEN-SW-POE-5](#) or [CEN-SWPOE-24](#)^[1]) may also be used to provide a total networking solution with built-in PoE.

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Occupancy Sensing

Crestron [GLS-series](#) room occupancy sensors can be connected directly to the TPMC-4SMD to allow automation of the room's lighting, climate control, and other devices.

Simple, Versatile Mounting

The TPMC-4SMD installs easily on virtually any mounting surface. As standard, it mounts directly to a single-gang electrical box (horizontally oriented) or European electrical box, requiring just 1/2-inch mounting depth while protruding less than 3/4-inch from the wall surface. It can also be adapted for mounting to a vertically-oriented 1-gang or 2-gang electrical box, or a 2-gang UK electrical box, using the optional [WMKU-4SM](#) Universal Wall Mount Kit^[1], which can also be used without an electrical box for a low-profile surface-mount solution^[2].

For impenetrable surfaces, such as decorative glass, granite, marble, plaster, smooth stone and masonry, Crestron offers the [MSMK-4SM](#) Multi-Surface Mount Kit^[1], which provides a very versatile mounting solution complete with a low-profile rear shell enclosure, adhesive mounting plate, optional angle bracket, and wire raceway. And finally, the [TTK-4SM](#) Table Top Kit^[1] converts the TPMC-4SMD into a stylish, compact tabletop touch screen, perfect for free-standing use or permanently-mounted on a tabletop or counter surface.

SPECIFICATIONS

Touch Screen Display

Display Type: TFT Active matrix color LCD
Size: 4.3 inch (109 mm) diagonal
Aspect Ratio: 16:9 WVGA
Resolution: 800 x 480 pixels
Brightness: 270 nits (cd/m²)
Contrast: 300:1
Color Depth: 16-bit, 64k colors
Illumination: Backlit LED
Viewing Angle: ±80° horizontal, ±80° vertical
Touch Screen: Resistive membrane

Buttons

Hard Keys: (10) Optional programmable pushbuttons, translucent backlit
Feedback/Backlight: (1) white LED per hard key, programmable for feedback and backlighting
Reset: (1) Recessed pushbutton behind pinhole for hardware reset

Proximity Sensor

Type: Active infrared beam and receiver
Range: 3-4 feet
Wakes the touch screen and backlight

Memory

SDRAM: 256 MB
Flash: 2 GB
Maximum Project Size: 80 MB

Graphic Engine

Core 3 UI™, 16-bit color depth (non-palette), VT Pro-e® programmable, supports pre-Core 3 projects

Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, IEEE 802.3af compliant

Video

Streaming Formats: H.264 (MPEG-4 part 10 AVC), MJPEG

Audio

Features: Built-in microphone and speaker, Crestron IP Intercom
Amplification: Mono, 0.5 Watts
Audio Feedback: WAV format, 8 & 16 bit PCM, mono & stereo, 8 – 44.1 kHz sampling rates

Connectors

LAN PoE: (1) 8-wire RJ45 with 2 LED indicators;
10Base-T/100Base-TX Ethernet port;
802.3af Power over Ethernet compliant;
Green and yellow LEDs indicate Ethernet port status

Occupancy Sensor Input: (4) captive screw terminals comprising (2) voltage sensing inputs (referenced to GND) with 24 Volt DC power output;
Input Voltage Range: 0-30 Volts DC;
Sensing Threshold: ≥4.5 Volts DC active, ≤1 Volt DC inactive;
Maximum DC Load: 4 Watts @ 24 Volts DC, provides operating power for up to (4) Crestron GLS Series occupancy sensors

Power Requirements

Power over Ethernet: IEEE 802.3af Class 3 PoE Powered Device

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 14 BTU/Hr

Enclosure

Construction: Plastic, black or white, smooth finish
Front Bezel: Plastic, hard buttons installed with pre-labeled button covers, custom engraving sold separately, "no-button" covers also included
Mounting: Requires a horizontally-oriented 1-Gang electrical box or plaster ring, or a 1-Gang European (DIN 49073) electrical box; choice of standard or security screws provided; optional universal wall, multi-surface, and table top mounting kits sold separately

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Dimensions

Height: 3.47 in (89 mm)

Width: 6.20 in (158 mm)

Depth: 1.21 in (31 mm)

Weight

8.8 oz (249 g)

MODELS & ACCESSORIES

Available Models

TPMC-4SMD-B-S: Isys® 4.3" Designer Touch Screen, Black Smooth

TPMC-4SMD-W-S: Isys® 4.3" Designer Touch Screen, White Smooth

Available Accessories

4SM-BTNO: Engravable Button Covers w/Custom Engraving, Set of 2

WMKU-4SM: Universal Wall Mount Kit

MSMK-4SM: Multi-Surface Mount Kit

TTK-4SM: TableTop Mount Kit

SMK-4SM: Swivel Mount Kit for TTK-4SM

PWE-4803RU: PoE Injector

CEN-SW-POE-5: 5-Port PoE Switch

CEN-SWPOE-24: 24-Port Managed PoE Switch

GLS-ODT Series: Crestron Green Light™ Dual-Technology Occupancy Sensors

GLS-OIR Series: Crestron Green Light™ Passive Infrared Occupancy Sensors

CEN-NVS200: Network Video Streamer

SW-VMK-WIN: TouchPoint™ Virtual Mouse & Keyboard Software for Windows®

Notes:

1. Item(s) sold separately.
2. WMKU-4SM mounting option requires a minimum surface cut-out or wall box opening of 1.7" high x 2.0" wide.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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